



My NASA Data: 6-8: Seasonal Science: Building Claims from Evidence

Student Name:

Date:

Period:

K	W	L	+?
What do you <i>think you</i> know? What do you <i>think</i> you would see?	What do you WANT to learn? What questions do you have?	What did you LEARN?	What scientific QUESTIONS do you have? Include independent and dependent variables.



**My NASA Data: 6-8: Seasonal Science: Building Claims from Evidence**

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**C-E-R Rubric**

Description	3 Points	2 Points	1 Point	0 Points
<b>Claim</b>	Makes an accurate and complete statement linking independent and dependent variables	Makes an accurate but incomplete claim addressing only one variable	Makes an inaccurate claim	Does not make a claim
<b>Evidence</b>	Provided appropriate and sufficient evidence to support claim using qualitative and quantitative observations of both the independent and dependent variables	Provide appropriate but insufficient evidence to support claim	Provides inappropriate evidence. The evidence does not support the claim	Does not provide evidence
<b>Reasoning</b>	Provides reasoning that connects each piece of evidence to the claim. Uses scientific principles to explain why the evidence supports the claim.	Provides appropriate but incomplete reasoning. Each piece of evidence is not supported by a line of reasoning.	Provides inappropriate reasoning.	Does not provide reasoning.
<b>Total</b>				

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<b>Total</b>				



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Student Data Sheet 1

Student Name:

Date:

Period:

**Claim:** (One sentence statement that addresses the relationship between solar insolation and surface temperature.)

<b>Evidence:</b> Sufficient, Appropriate, and Observation-driven	<b>Reasoning</b> (Why is this evidence important?)
<b><u>Student Data Sheet: A</u></b> 1.  2.  3.	<b><u>Student Data Sheet: A</u></b> 1.  2.  3.
<b><u>Student Data Sheet: B</u></b> 1.  2.  3.	<b><u>Student Data Sheet: B</u></b> 1.  2.  3.
<b><u>Student Data Sheet: C</u></b> 1.  2.  3.	<b><u>Student Data Sheet: C</u></b> 1.  2.  3.

Student Data Sheet 1

Student Name:

Date:

Period:

**Claim:** (One sentence statement that addresses the relationship between solar insolation and surface temperature.)

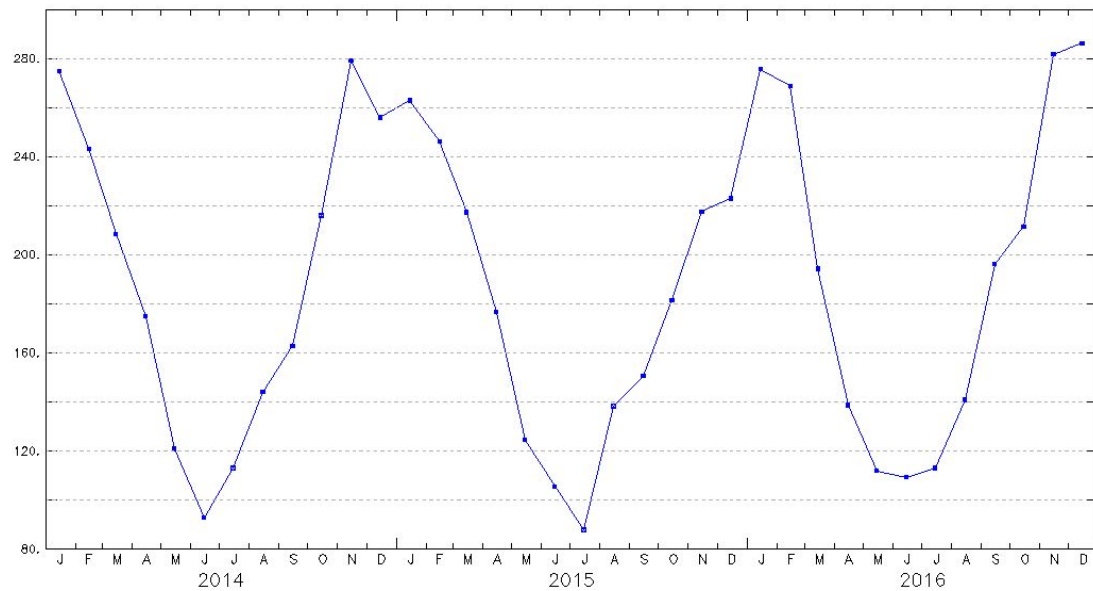
<b>Evidence:</b> Sufficient, Appropriate, and Observation-driven	<b>Reasoning</b> (Why is this evidence important?)
<b><u>Student Data Sheet: A</u></b> 1.  2.  3.	<b><u>Student Data Sheet: A</u></b> 1.  2.  3.
<b><u>Student Data Sheet: B</u></b> 1.  2.  3.	<b><u>Student Data Sheet: B</u></b> 1.  2.  3.
<b><u>Student Data Sheet: C</u></b> 1.  2.  3.	<b><u>Student Data Sheet: C</u></b> 1.  2.  3.



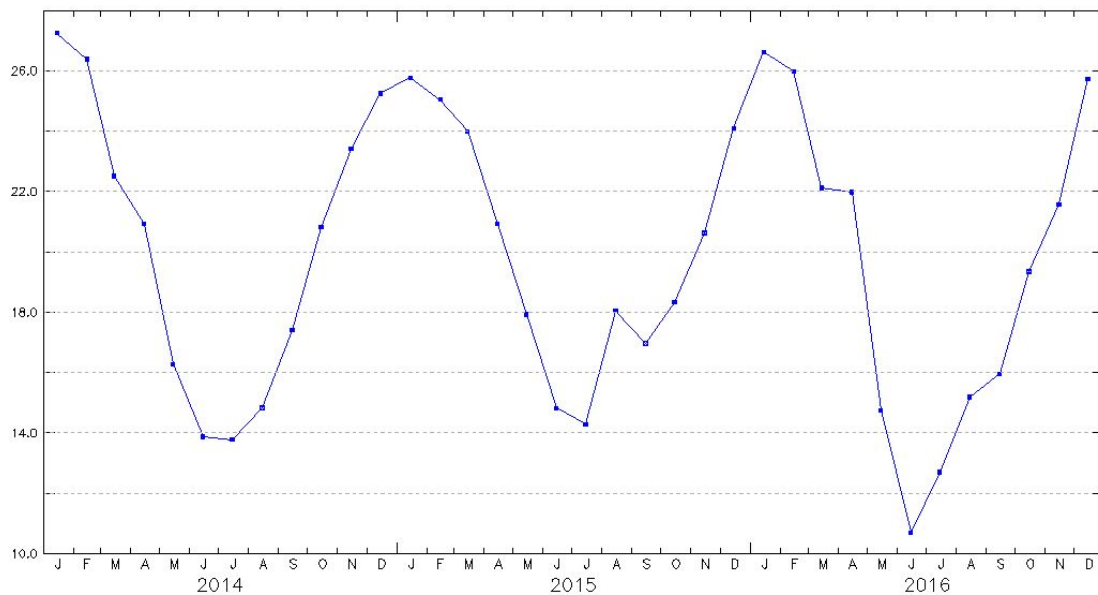
Student Data Sheet: A

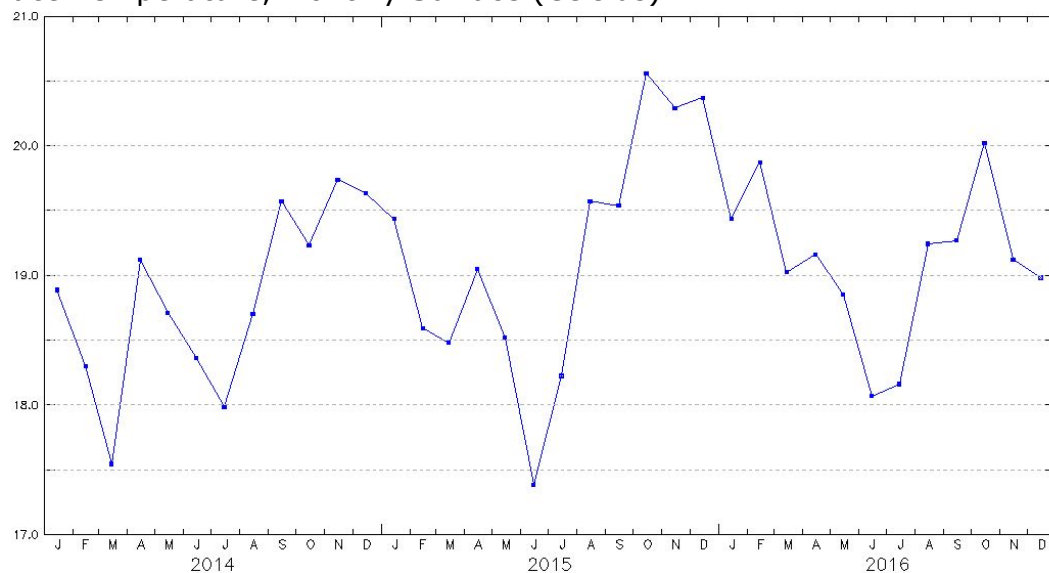
Location: Porto Alegre, Brazil LONGITUDE : 51.5W(-51.5) LATITUDE : 30.5S

Surface Atmospheric Radiation, Monthly Surface ( $W/m^2$ )



Surface Temperature, Monthly Surface (Celsius)



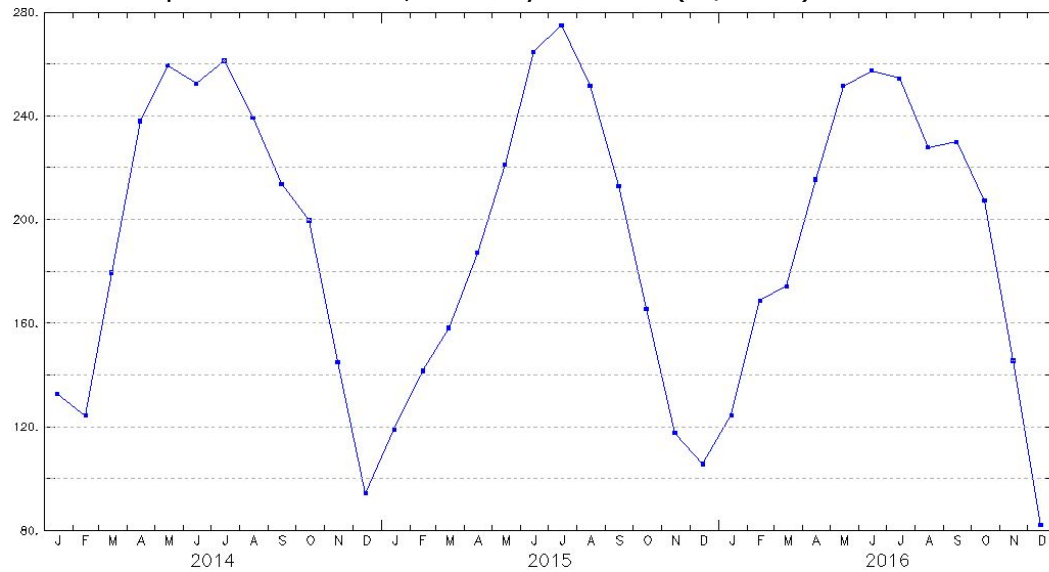




Student Data Sheet: C

Location: Memphis, TN      LONGITUDE : 90.04W    LATITUDE : 31.15 N

Surface Atmospheric Radiation, Monthly Surface ( $\text{W/m}^2$ )



Surface Temperature, Monthly Surface (Celsius)

